

ABSTRACT

The invention relates to a method for detecting a check-back signal in a transmission system for optical signals. According to said method, a constant proportion of the output in a defined frequency range of the check-back signal is concentrated in a narrow-band spectral range and is determined after a transmission phase by means of a narrow-band detection of the concentrated energy around the spectral range. If no signal is identified during the narrow-band detection, a line interruption is determined and no pump source is switched on for safety reasons. The narrow-band detection of the check-back signal also allows the transmission attenuation of the transmission system to be measured.